CHRISTOPHER SIMPSON

(980) 288-8802 simpsonc6@winthropalumni.com [LinkedIn](#) [Github](#) [Portfolio](#)

Skills Python, JavaScript, Java, HTML, CSS, SQL, AWS, Amazon S3, Adobe Suite, Express.js, Node.js, React.js, Redux, Sequelize, Docker, Flask, SQLAlchemy, PostgreSQL, GIT, Restful APIs, OOP, Agile Development

Projects

Wizlet (Python, Flask, SQLAlchemy, PostgreSQL, JavaScript, React, Redux)   [Live Site|Github](#)
Learning website based on public and private folders of user-created sets with question flashcards.
- Constructed RESTful APIs with Flask blueprints and Python decorators, which enable smooth communication between front-end and back-end systems and facilitate third-party integration.
- Applied SQLAlchemy's relationship and foreign-key features to normalize and maintain strong relationships between database tables, enabling precise data access from PostgreSQL.
- Implemented Global-State-Management in React with Redux to ensure smooth and consistent data flow across components to update and track the most recently uploaded public Folders and Sets.
- Designed a responsive user interface using HTML, CSS media queries, and Flexbox, ensuring an optimal user experience across various devices and screen sizes.

Webear (Python, Flask, SQLAlchemy, PostgreSQL, React, Redux, Chart JS)   [Live Site|Github](#)
Stock Trading Simulation with live updating portfolio stocks and simulated charts.
- Instituted efficient database schemas with a normalized Redux Store object tree for optimized access.
- Eliminated redundancy and improved data integrity by using the useSelector hook to access specific slices of state, ensuring proper querying and maintaining accurate records with SQLAlchemy.
- Collaborated with a team of three software developers in daily scrums and implemented agile methodology and a custom GitHub branching policy to ensure the feasibility and optimal integration of the application user experience within the group infrastructure.
- Added Chart JS library to simulate stock portfolio charts from user-only accessed data in the dashboard when logged in and to simulate a chart for each individual stock's details.

ChairBnB (JavaScript, React, Redux, AWS, Sequelize, Express.js, PostgreSQL)   [Live Site|Github](#)
Listings and bookings e-commerce site for chairs and seating located in user-created spots.
- Utilized AWS S3 Bucket to deploy and maintain the application images in a cloud environment, ensuring scalability.
- Created a backend server with Cross-Site Request Forgery (CSURF) protection middleware in Express.Js allowing full CRUD functionality with RESTful API for user-created spots and reviews.
- Developed database migrations, constraints, models, and validations with Sequelize Object-Relational Mapper to interact with the PostgreSQL database, ensuring efficient data management and retrieval.
- Built frontend state management with the React hook useDispatch to update component lifecycle events globally for all spot details and reviews for each spot instantaneously.

EXPERIENCE

Denali Performance LLC, Art Director York, SC   Jan 2021 – Sep 2021
- Managed and led a team of 10 employees to produce art layouts based on customer visions and ideas to meet fulfillment and shipping deadlines ranging from 2 to 14 days.
- Managed profitable product lifecycle by applying customer feedback, prioritizing the most critical issues, and shipping creative solutions accordingly to facilitate demand.
- Analyzed customer usage data for $2M of products in collaboration with Sales team
- Wrote sales documentation for products such as chillBRO®, WIKZ® & ZYPTRON® in national markets.
- Maintained IT operating systems (mobile and desktop devices), including installation, configuration, and diagnostic troubleshooting.

EDUCATION

App Academy (Immersive FullStack Developer Course), San Francisco, CA   2023
Winthrop University (Bachelor of Arts (BA) in Educational Development), Rock Hill, SC   2021